

**Notice of Allowability**

Application No.

09/895,605

Examiner

Michael B. Holmes

Applicant(s)

STEFKE ET AL.

Art Unit

2121

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to May 27, 2005.
2. ☒ The allowed claim(s) is/are 10-41.
3. ☒ The drawings filed on 16 March 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |   |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)           |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance  |
|   | 9. <input type="checkbox"/> Other _____   |



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**Examiner's Detailed Office Action**

1. Claims 1-9 have been canceled.
2. Claims 10-41 are allowed.

**REASONS FOR ALLOWANCE**

3. The following is an Examiner's statement for reasons for allowance:
4. The closest art *Labe, Jr. et al.* (USPAP 2002/0091605), *Schirripa* (USPN 6,282,520), does not teach or render obvious applicant's claimed invention. In particular, as pointed out below, the art lacks certain features and the combination as specified in the respective claims.
5. With regards to claim 10 *Labe, Jr. et al.* and *Schirripa* does not disclose integrating a plurality of factor models corresponding to the plurality of asset classes, where integration of the plurality of factor models is based at least in part on, one or more global factors that capture covariance among factors associated with the plurality of factor models, and exposures of the factors associated with the plurality of factor models to the one or more global factors.
6. With regards to claim 21 *Labe, Jr. et al.* and *Schirripa* does not disclose integrating a plurality of factor models corresponding to the plurality of asset classes, where integration of the

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plurality of factor models is based at least in part on data derived from the steps comprising, determining one or more global factors that capture covariance among factors associated with the plurality of factor models, and determining exposures of the factors associated with the plurality of factor models to the one or more global factors.

7. With regards to claim 32 *Labe, Jr. et al.* and *Schirripa* does not disclose integrating a plurality of factor models corresponding to the plurality of asset classes, where integration of the plurality of factor models is based at least in part on data associated with the plurality of factor models corresponding to the plurality of asset classes, and an estimated factor model with one or more global factors that captures the covariance among factors associated with the plurality of factor models.

8. With regards to claim 36 *Labe, Jr. et al.* and *Schirripa* does not disclose integrating a plurality of factor models corresponding to the plurality of asset classes, where integration of the plurality of factor models is based at least in part on data derived from the steps comprising, determining data associated with the plurality of factor models corresponding to the plurality of asset classes, and determining an estimated factor model with one or more global factors that captures the covariance among factors associated with the plurality of factor models.

9. With regards to claim 40 *Labe, Jr. et al.* and *Schirripa* does not disclose determining a factor risk model, having one or more factors, for each of the asset classes, combining the factor risk models to form and output an aggregate risk factor model based at least in part on data associated with each of the factor risk models comprising, one or more time series of returns to the factors, a factor covariance matrix, and a specific covariance matrix to form and output an

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aggregate risk model with wider scope than the factor risk models, and wherein the aggregate risk model is consistent with each of the factor risk models.

### Correspondence Information

10. Any inquires concerning this communication or earlier communications from the examiner should be directed to Michael B. Holmes, who may be reached Monday through Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile transmission (571) 273-3686 or email [Michael.holmesb@uspto.gov](mailto:Michael.holmesb@uspto.gov).

If you need to send an Official facsimile transmission, please send it to (571) 273-8300.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony Knight, may be reached at (571) 272-3687.

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor of the south side of the Randolph Building.

**Michael B. Holmes**

Patent Examiner

Artificial Intelligence

Art Unit 2121

United States Department of Commerce

Patent & Trademark Office

*Tuesday, August 16, 2005*

MBH

  
**Anthony Knight**  
Supervisory Patent Examiner  
Group 3600